1	GCGGCCGCGT	CGACGTCTTT	GCTGCCGCAC	AGGGAGCAGC	AGCAGCCGCC	GACCCGATCC	
61	CTTGGGAGCC	CACCAAGTGC	TGCGCTTGCT	TAGCAGCTAC	AGGAGCTGCC	GCGGGGTTGC	
121	TCCCTGAGGC	AGCGTGCATG	TATGGTCCGG	CAGCCAGCTT	GGTGTCGCAG	CCGTACTTCT	
181	TGGAAGCGAG	AGAGACTGTG	GGAGAGCGCA	AATCACTCCA	GCCGCTTCCA	GGGGAGTCTG	
241	GGGACCGCAG	GAGCGTTGGA	GGCTGCCTGC	CGGCATAAAC	AGGAACAAGC	GCATTCTTAT	
301	TCTTCTGTGG.	TTGCTGAGTT	CTGGCTGCGT	TCAAGGGGGT	TCACCTCTTC	CCCTTCTGGC	
361	GAGTTTTTGC	TGCGTCTTTC	CCTAAGAAGC	AGCGCCACGT	GCGTGGCGTG	CCTCAGCCTG	
421	ACGCGGTGCA	CCTTTTACGT	AAGAGCGTCG	ATAGCATCGG	TCATCTACAG	CAGCGTGCTG	
481	CTGCTTCCGT	GACCTTTACA	CTGCTTGTGG	CGGGCCGTCT	TGTAGAGGGG	CCATCTGCTT	
541	GTTCGCTGCT	GGACGCAGAC	CCGCCCCC	ACATTTCCGG	CAGCCGGGCA	GTTGAGATAA	
601	ACCGGCTGCC	CGGTGGCCGT	CGAAATTGAA	GCAGGATCTC	TACAGTAAGG	AACAAATCGC	
661	GCTATTTTTA	AGGAGTGTGT	ATACTTGGGG	CGTTACTCGT	GAGTATTGCT	GATGATGGAC	
721	GTCCGTGTGG	GGGGTAÁGTA	${\tt TCGTTTGGGG}$	AGGAAGATTG	GGAGCGGATC	CTTCGGCGAC	
781	ATCTACCTTG	GTACGAACAT	CTCAACAGGA	GATGAAGTCG	CTATCAAATT	GGAAAGCGTG	
841	CGGTCTAGGC	ATCCACAACT	AATCTATGAA	AGCAAGCTGT	ACAAAATCCT	AACGGGTGGA	
901	ATCGGAATCC	CGACTCTTTA	CTGGTATGGG	ATCGAGGGGG	ATTACAACGT	TATGATTATT	
961	GAGCTTTTGG	GCCCGTCTCT	TGAGGACCTC	TTCAGCATTT	GCAACAGAAA	GCTTTCTTTG	
1021	AAGACTGTTC	${\tt TGATGCTCGC}$	CGACCAAATG	CTAAATCGTA	TTGAGTTCGT	CCACAGCAGA	
1081	CATTTCATCC	ATCGAGACAT	CAAGCCTGAC	AATTTTTTGA	TCGGTAGGGG	CAAAAAGATG	
1141	TCCATTGTTT	TTGCTATCGA	CTTTGGCCTC	GCAAAGAAGT	ACAGAGATCC	CAGAACACAG	
1201	TCCCATATTC	CTTATCGAGA	AGGGAAGAAC	CTGACAGGTA	CCCCGAGGTA	CGCCTCTGTG	
1261	AACACCCACT	TGGGAATAGA	ACAGAGCAGG	CGCGATGATC	TGGAAGCGCT	CGGCTACGTC	
1321	TTAATGTACT	TCAACAGAGG	TTCCTTACCC	TGGCAAGGAT	TAAAGGCCAC	TACGAAGAAA	
1381	GATAAATATG	ACAAGATTAT	GGAGAAGAAG	ATGTCCACCC	CTATTGAAGT	CCTTTGCAAA	
1441	CAATTTCCAT	TTGAGTTTAT	CACATATCTG	AACTATTGCC	GGTCTCTGCG	ATTCGAAGAT	
1501	CGCCCGGACT	ATTCCTATTT	GAGACGGTTG	TTCAAGGATC	TTTTCTTCCG	TGAGGGATAC	
1561	CAGTATGACT	TTATATTCGA	TTGGACATTT	CTGCATGCTG	AGAGAGAGCG	CGAGCGTCAA	
162İ	AGACGATCGA	TGGTCAACCA	AGGCGCAGAA	TCAGGGAACC	AGTGGAGACG	AGACGCGTCG	
1681	GGCAGAGATC	CACTTGGACG	GTTGCCTCAG	TTAGAACCGT	AATCTCTTTA	CGGGCAGATT	
1741	GCCGTACGGG	TCTTCTGCTC	ATTCAGTGGC	AGTGCCACCG	CAGTGCTATC	TGAGGCTGTG	
1801	GCTTCAGGAT	GTGGTAGCCA	GTTACCATGG	TCACTTGCCC	TCGCTAGGAC	AGCCTTCGCA	
1861	GGGAAATGTC	ACAGTAGCCT	GCATTATGTG	GTGTGAGAAC	TGCTAGCGCA	TTCCTGTAGT	
1921	TGCTTTTACG	AAGCAGGATA	CGCAGCGTGC	ATCACGCGGT	GGTTCGAGCG	CTCGCTACGC	
1981	ATCACAGGGC	TGTGAGGCAA	GTTAGTATCT	TTGGGGGACG	AGTTGAGAGT	GTCAGAATCG	
2041	ATAGTCTCAG	GGCATGCAGG	CGAAATGGAG	GCTGCGCCAG	TAGTGCCAGC	CGGTGGCGAA	
2101	GGCGTCAAAT	TTACTTTTTT	TGTTGCTGGG	GATATTGTTA	GAGCAACAAC	TTGGGTCTAG	
2161	ATGCTACTGA	ТАААААААА	AA (SEQ ID	NO:1).			

FIG. 1

. 1	CCTCGTTTTG	CTTCATTCCC	CGCCTTTTCT	CTGTAGCTAA	CCAAAGGAAC	AAAGTCAGCG
61	GTAGAAGCCG	TTTCTTCTGT	CCGCTTCCCA	CTCTTCCCGT	TCGGCTGCCC	CTGCAGAGCG
121	CCCTTTCTAT	GCGTTGCCAC	CCGTCTGCAA	GTATCGCGTC	TTTCGTCTCA	TCAGTGATTT
181	TCTTTGCGTG	TCGCGTTCGG	GACGCCCTTT	TCTCTCCTCA	ACTAACTAGC	AGACGTTTCT
241	TCCGTCCCGC	ATGCGACAGC	GAAGGGCACG	TCCCCCCAGT	TCTTCATCGC	CCACCTGTTG
301	TGCAACTTGT	CGCCCGTCGT	TCTTCACTTC	TTCTCTCCCA	TCCTCTCGTG	ACTCTTCCTC
361	TCGAGAACTC	TTTCTGTCGA	ACTCTCAACC	CCCACGACTG	CTGGTTTCGT	GGCCGTCCCG
421	CATGCACCTT	GTGTCCCGCC	GCCTTGGCGC	AAACACCCGC	TTTCTCTGCT	GTCCGCCTCC
481	CGGTGGACTT	CTCTCCGTGT	TTTTTCGTGT	TGCCAAAAGT	TTGTCTGCTT	TGACGTTTCT '
541	CTGCTCACCC	ATTGCCCGCT	CTTGATGAGG	AACGCTCCAC	ATTGACAGCG	AACTCACAGC
601	ACGCACCCTC	CGCGAGCGGA	CTTTCACGAG	CGAGGCAAGA	ATCCATCGTC	ACCCCGCCTA
661	CACGTACACT	ACTCCACTTG	GGTGCCCACG	CGCGGCTTCT	GGGAGACAGA	GACGGTCCTC
	GTTTTCCGTG					
781	CCCTCGGCGA	ACGGGCGAAG	CCGCCCTGTC	GCGCGTCGCG	ACTCAGCTGA	GGCGACAGGC
841	GGTCGGCGGC	GTGACCTCTC	$\mathbf{TTTCTTTTTG}$	CATTCGGCCC	TGATTGCAGC	ACGAAGGATG
901	GAGGTCAGGG	TCGGAGGCAA	GTACCGACTT	GGTCGGAAGA	TCGGCAGCGG	GTCATTCGGT
961	GATATTTATA	TCGGTGCAAA	CATTTTGACG	GGGGATGAGG	TGGCGATCAA	GTTGGAGTCT
1021	ATCAAGTCGA	AGCACCCGCA	GCTGCTCTAT	GAGTCGAAGC	TGTACAAACT	GCTGGCTGGC
1081	GGCATTGGGA	TTCCCATGGT	CCACTGGTAC	GGCATCGAAG	GAGACTACAA	TGTTATGGTT
	ATCGACCTTC					
	CTCAAGACGG					
1261	AAGAACTTCA	TCCATCGCGA	TATCAAACCC	GACAACTTCC	TCATTGGCCG	TGGAAAGAAG
	ATGTCCGTCG					•
	CAGCAACATA					
	ATCAACACCC					•
	GTTCTCATGT					
	AAGGACAAAT					•
	AAGCATTTCC					
	GATCGTCCTG					
	TATCAGTACG					
	CGAAGAAGCC					
						CCGCTGAGTC
						CCTCGACTCG
						TCAGGACGCG
2041	CGTCTCCCTC	TGAGTTTCGC	AAAGTTGCCC	CTGGAA (SE	Q ID NO:3).	

1 TTAACCCTC CTARAGGGA CARARGCTG AGTTCATCG GGGTGGGGG GGACCGGAAAAACCGCAAAAAACCGCACACC GGGACCACCACC GGGGGTGGAA AAAACCGGACACCACACACACACACACACACACAC							
1211         GGCGCACCAT         CAAGACACCC         GCAACCACAC         GGGGGTCGGA         AAAATCGGAT         CCGGTTT           181         GAAGATTTG         AAGATCGCG         GCGTCTGGAA         AAAATCGGAT         CCGGTT           241         CGGCGACATA         TACAAAGGC         TACAAATCCTC         GACCGGTCAG         GAGGGGACC         CTACATTCA         AAACTTTTGA         AAACTTTTGA         AAACTTTTGA         AAACTTTTGA         AAACTTTTGA         AAACTTTTGA         AAACTTTTGA         AACTTTTGA         AACGATTACA         CGGGGGGACC         ATTCATACA         AAACTTTTCA         AACTTTTCA         AACGATTACA         CCAGTTTCA         AACTTTTCA         CAAGATACA         CAAGATCACA         ATTCATACACA         CCAGTTCACA         CAAGATCACA         CATATTCCACA         CAAGATCAA         ACGACACAA         CATATTCCACA         CAGAGAAAAA         CATATTCCACA         CAGAGAAAAA         CATATTCCACACAA         CACAACAAACAA         CATATTCCACACAAAAACAAAAAAAAAAAAAAAAAAAA	1	TTAACCCTCA	CTAAAGGGAA	CAAAAGCTGG	AGCTCCACCG	CGGTGGCGGC	GCACCGAGGA
181         GARAGATTTG         AAGATCGCCG         GCGTCTGGAA         AAAACGGAC         CCGGTCTG         CCGGTCAG         CCGGTCAA         TACAAAGGCC         TGAATTCTCA         GACCGGTCAG         GAGGTGGCCC         TGAAGG         GACAGTGCCC         TGAAGATACA         AAACCTTTCAA         AAACCTTTCAA         AAACCTTTCAAA         AAACCTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	61	AAACGCAGCT	CGTAAGAGAC	AGTTCTCTCG	GTGAGAAGAG	CTATCCGAGA	AGGACACCAT
241 CGGCGACATA TACAAAGGCC TGAATTCTCA GACCGGTCAG GAGGTGGCGC TGAAGGC 301 AAGCACCAAG GCGAAGCATC CGCAGTTGCT GTACGAATAC AAACTTTTGA AGCATT 361 GGGAGGAACG GGCATTGCTC AAGTGTTCTG TTGCGAGACT GCGGGCGACC ATAACA' 421 GGCCATGGAG TTGCTTCGGCA CTTCTTTACA GACAGTTTCT CAACGCGTCG ATACA' 481 CTCTCAAAA ACCATTCTC TTCTCGCCGA CAGGTTCTT CAACGCGTCG AGTACA' 481 CTCCAAGAAT TTCATTCACA GAGATATCAA ACCAGATAAC TTTCTTCTCG 481 CTCCAAGAAC ACCATTCTCG TGATCGACT CAGCGTTCG CAACGCGTCG GGGGGGAC 481 CTCCAAGAAC ACCATTCTCG TGATCGACTA CACGATACA TTCTTTCTCG 481 CTCCAACAAAC ACGATTACCG TACACACACA ACCAGATACA TTCTTCTCG 481 TACCAACACA CATATTCCGT ACAGAGAAAA CAGAATCCT ACGGGACGG CGGCCT 481 TACCAACACG GAGAATACCA ACAGAGAAAA CAGAATCCT ACAGGACGACG CAGCACCA CATATTCCGT GTCGAGGAG CACCTCCCT TGGCAGGGC CCGCCT 481 TACCAAACAG GAGAAGTACC ACAAGATCAT CACATACTTC CACTACCAC CCCTCCG 481 TACCAAACAG GAGAAGTACC ACAAGATCAT CACATACTTC CACTACCACC CCCTCCG 481 TACCAAGACG GAGAAGTACC ACAGATCAT CACATACTTC CACTACCACC CCCTCCT 481 TACCAAGACG CAACACGGACT ACGCCAACAT CACATACTTC CACTACCACC CCCTCCT 481 TCCAGGGAC CAACACGGAC CACACACATTTC CACACACCAC TTTCCAGGACC CACACACACT 481 TCCAGGACC CAAGCAGTC CACCGCAACA TGTTTTACTG AGCCACCG CACGACACA TCTTCACACACACACA CACATACTTC CACACACCAC CACACACA	121	GGCGCACCAT	CAAGACACCC	GCAACCACAC	GGGGGTCGGA	CCCTCTTCGT	CTATCCCTCT
301 AAGCACCAAG GCGAAGCATC CGCAGTTGCT GTACGAATAC AAACTTTTGA AGCATT 361 GGGAGGACG GGCATTGCTC AAGTGTTCT TTGCGAGACT GCGGGCGACC ATAACA' 421 GGCCATGGAG TTGCTCGGAC CTTCTTTACA GGACGTTCT AACTGTCCA ATCCCA' 421 GCCCATGGAT TTCATTCACA GAGATATCA CACATTTCTC CACGGCTCG AGTAACA' 421 CTCCAAGAAT TTCATTCACA GAGATACAA ACCAGATAC TTTCTTCTG GCGGTGG 421 CTCCAAGAAC CACATTCTCT TCATGCACA ACCAGATAC TTTCTTCTG GCGGTGG 421 GTCCATCAAAC ACGATCTACG TGATGGACTT GGCCTGGCG AAGAAGTTC GCGATCA 421 GTCCATCAAC CACATCTCGT CACAGAGAAAA CAAGAATCT ACGGCTCG AGCAGCA' 421 GTCCATCAG CACATCTCG TCATGGACTA CACAGATACC TTTCTCTCG GCGCTG 421 GTCCATCAG CACATCTCG GTTCCGAGCA GAGACGCCA AGCAGGCCA TCAAAG 421 TACCAACAG GAGAAGTACC ACAAGATCAT GAGAAGAACA TCTCGACGC CCGTCG 421 TATCGAGGAC CGCATCTCG GTCCAGCCA GAGCAGACG CCGCCCT 421 ACTCGAGGAC CGCACCACA CACACATCAT GCACTACTTC CACATACTCC CCCTCCT 422 ACTCGAGCAC CGACCGACT ACGCCTACCT CAAGCGACC TTTCGACGAC CCGACCGACT ACGCCACAC CACACACCC CACACACCAC TTTCCAAGAC CCCAACCACT CACACACCAC TTTCCAAGAC CCCGAAC 421 ACGAGGCTAC GAGCACAGC CACACCACC TTCCAAGACC CCGAAC 422 ACGAGACAGAC CACACCACC CACACCACC GCGCCC 422 ACGAACCACG CAAGCACAC CACACCACC GCGCCC 422 ACCATTCCAC CACACACAC CACACCACC GCGCCC 422 ACCATCCTC CACCCACACC CACACCACC CACACCACC CACACCAC	181	${\tt GAAAGATTTG}$	AAGATCGCCG	GCGTCTGGAA	AATCGGCAGA	AAAATCGGAT	CCGGTTCCTT
421 GGCATGGAG GGCATTGCTC AAGTGTTCTG TTGCGAGACT GCGGGCGACC ATAACA 421 GGCCATGGAG TTGCTCGGAC CTTCTTTAGA GGACGTCTC AACTTGTGCA ATCGCAC 481 CTCTCTCAAA ACCATTCTC TTCTCGCCGA CCAGTTTCTG CAACGCGTCG AGTACAC 541 CTCCAAGAAT TTCATTCACA GAGATATCAA ACCACATAAC TTTCTTCTCG GCGTG 661 AACGCACCAA CATATTCCGT TACAGAGAAAA CCAAGATAAC TTTCTTCTCG GCGCTG 661 AACGCACCAA CATATTCCGT TACAGAGAAAA CAAGAATACC ACGGGAACGG GCGCCT 721 GTCCATCAGT GCGCATCTGG GTTCCGAGCA GAGTGCCCG GATCACCGC 721 GTCCATCAGT GCGCATCTGG GTTCCGAGCA GAGTGCCCG GATCACCTCG AAGCAG 841 TACCAAACAG GAGAGATCC ACAGAGAAAA CAAGAATCAT GGGCAGCGC GATCACCTCG AAGCAG 901 GCTATGCAAG GAGAGATCC ACAGAGTACC GCGCATCTC TTCGAGGAG GAGCAGCCGC GATCACCTC ACAGAGACAA CAAGAACAT GCACATCACTC GCCCAACGG GATCACCTCG CACCACACACG GAGACAGAC CCACACACACAC GAGCACGCC ACACACAC	241	CGGCGACATA	TACAAAGGCC	${\tt TGAATTCTCA}$	GACCGGTCAG	GAGGTGGCGC	TGAAGGTCGA
421 GGCCATGGAG TTGCTCGGAC CTTCTTTAGA GGACGTCTTC AACTTGTGCA ATCGCA 481 CTCTCTCAAA ACCATTCTC TTCTCGCCGA CCAGTTTCTG CAACGCGTCG AGTACA 541 CTCCAAGAAT TTCATTCACA GAGATATCAA ACCAGTTAC TTTCTTCTCG GCGGTG 661 AACGCACCAA CATATTCCGT TACAGGAAAAA CAAGAATCT ACGGGAACG 661 AACGCACCAA CATATTCCGT TACAGGAAAAA CAAGAATCT ACGGGAACGG CGCCCT 721 GTCCATCAGT GCGCATCTGG GTTCCGAGCA GAGTCGCCGA GATGACCTC AACGAG 781 CTACGTTCTC ATGTACTCT GTCGAGGAG CACGCTGCCT TGGCAGGGCA TCAAAG 781 CTACGATCAC GGACATCTAC GTCGAGCA GAGTAGCACTC ACGAGGAA 781 TACCAAAACA GAAATTCCA GCGATCTTC GTCGAGGAG CACGCTGCCT TGGCAGGGCA TCAAAG 781 TACCAAACAG GACAAGTACC ACAAGATCAT GGAGAAGAAA ATGTCGACGC CCGTCG 781 ATCCGAGCAC GGACAGATCC ACAAGATCAT GGAGAAGAAA ATGTCGACGC CCGTCG 781 TACCAAACAG GACAAGATCA CACAAGATCAT GACACACTC TTTCGAGGAC CCGTCCT 781 ACCAAAACAG GACAAGATCA CACACACCT CAAGCAGAC TTTTCGAGGAC CCCGTCCT 781 ATCCGAGCAC CAAGCAGTC ACCCCGCAATT CCACTACTTC CACTACTGC CCCCAA 781 ATCCGAGCC CAAGCAGTC CACCCGCAATC TTTTCATG AGTCAAACTT CGTCGC 781 ACGGAAACGCC CAAGCAGTC CACCCGCACACC TCTCTTTACTG AGTCAAACCTC GCGCGC 781 ACTCATGGAC CAAGCAGAC TGCGCACACC ACGAACCCC GCGCCC 781 ACTCATGGAC CAAGAACACC CACACTCCT TTCCATGGCA ACGAACCCC CACCGAC 781 TTCTACCCCG AAACAACACC CACACTCCT TTCCATGGCA ACGAACCCCC CACCGAC 781 TTCTACCCCG AAACAACCC CACACTCCT TTCCATGGCA ACCACCCC CACCGAC 781 TTCTACCCCG AAACAACCC CACACTCCT TTCCATGGCA ACCACCC CACCGAC 781 TTCTACCCCG AAACAACCC CACACTCCT TTCCTTCTC CCCCCC 781 TTCAACACCC CACCCACCT CACCCACCT CACCCACC	301	AAGCACCAAG	GCGAAGCATC	${\tt CGCAGTTGCT}$	GTACGAATAC	AAACTTTTGA	AGCATTTGCA
481 CTCTCAAA ACCATTCTC TTCTCGCGA CCAGTTCTG CAACGCTCG AGTACA 541 CTCCAAGAAT TTCATTCACA GAGATACAA ACCAGATAAC TTCTTCTCG GCGTGG 601 CAATCAAAAC ACGATCTACG TGATCGACTT CGGCCTGCG AAGAAGTTTC GCGATC 601 AACGCACCAA CATATTCCGT ACAGAGAAAA CAAGAATCT ACGGGAACG CGCCT 721 GTCCATCAGT GCGCATCTGG GTTCCGAGCA GAGTCGCCA GATGACCTCG AAGCAG 781 CTACGTTCT ATGTACTCT GTCGAGGAG CACGCTGCT TGGCAGGGA TCAAAG 841 TACCAAACAG GAGAAGTACC ACAGATCAT GGAGAAGAA ATGTCGACGC CCGCGC 901 GCTATGCAAG GAGAAGTACC ACAGATCAT GAGGAGAGA ATGTCGACGC CCGCGC 901 ACTAGGGCC CGACCGGACT ACGCCTACCT CAAGCACTT TTCGAGGAC CCGCTGC 901 ACTAGGGCC CGACCGGACT ACGCCTACCT CAAGCACTC TTTCGAGACC CCGCAC 1021 ACAGGGCTAC GAGCAGGTC ACGCCTACCT CAAGCCACC TTTCGACACC CCGCAC 1021 ACAGGGCTAC GAGCAGGTC GAGCCGAACA TGTTTACTG AGTCAAGCAC CCGGAA 1141 AGGGAAGCG GAGACAGATC GACCGCAACA TGTTTACTG AGCACCCCG GCGCC 1261 AGTCATGGC CAAGCAGCC CAAGCAGCC TCCGCGAACA TGTTTACTG AGCCACCCG GCGCC 1261 AGTCATGGC CAAGCAGCA CGGCCAACA TGTTTTACTG AGCCACCCC GCGGCC 1261 AGTCATGGC CAAGCAGAC CGGCCAACA TGTCTTACTG ACCAGCACCC GCGGCC 1261 AGTCATGGC CAAGCAGAC CGGCCAACCA TGCGCGAGGA GACCGAGCCC GCGCC 1261 AGTCATGGT CATGAACCCA CGAGCTCGT TCCGAGGAC GAGCCAGAT TTTCTT 1381 TCCACCGCG AAACAACACC CGAAGCACC CTCCGACGAC GAGCCAGAT TTTCTT 1381 TCCACCTGTTA TGTCGGCGCT CTCCCACACCA GAGTCGCC CCGCCACACA TTTCTTTCT 1441 CCCCGCAGTT TCTCTCCT CTCCTCTCT TCCTTTCTTT CTCTCCTC	361	GGGAGGAACG	GGCATTGCTC	AAGTGTTCTG	${\tt TTGCGAGACT}$	GCGGGCGACC	ATAACATCAT
541 CTCCAAGAAT TTCATTCACA GAGATATCAA ACCAGATAAC TTTCTTCTCG GCGGTG 601 CAATCAAAAC ACGATCTACG TGATCGACTT CGGCCTGCG AAGAAGTTTC GCGATC 601 AACGCACCAA CATATTCCGT ACAGAGAAAA CAAGAATCTC ACGGCAACGG CGCGCT 721 GTCCATCAGT GCGCATCTGG GTTCCGAGCA GAGTCGCCGA GATGACCTCG AAGCAG 721 CTACGTTCTC ATGTACTTCT GTCGAGGCG CACGCTGCCT TGGCAGGGCA TCAAAG 841 TACCAAACAG GAGAAGTACC ACAGAATCAT GAGAGAAGAG ATGTCGACGC CCGTCG 901 GCTATGCAAG GGATATCCAA GCGAATCAT GAGAGAAGAG ATGTCGACGC CCGTCG 901 ATTCGAGGGC CGACCGACT ACGCCTACCT CAAGCGACTC TTTCCAGAGTC GCTCCT 1021 ACAGGGCTAC GACCGGACT ACGCCTACCT CAAGCGACTC TTTCCAGAGTC TCTACAC 1021 ACAGGGCTAC GACCGGACT ACGCCTACCT CAAGCGACTC TTTCCAGAGTC TCTACAC 1021 ACAGGGCTAC GATGACAGTG ACCGCGAATT CCACTACTGC GCTCCT 1021 ACAGGGCACG CCAAGCAGTC GACCGCAACA TGTTTTACTG AGTCAAGACA CCCGAA 1141 AGGGAAGCG GAGACAGATC GACCGCAACA TGTTTTACTG AGTCAAGACA CCCGAA 1201 CCATTTCAGC AACGGGAACG TGGGCAACCA TGTTTTACTG AGTCAAGACA CCCGAA 1211 TCTACCGCG GAACAGACG CGACCTGCG TCCGCGAGGG GACCGTGGG ACCGGAC 1221 AGTCATGGT CATGAACGCA CGACTCGT TCCGACGAC ACGAACCCCG GCGCC 1221 AGTCATGGT CATGAACGCA CGACCGCACA TTCTCTTCT 1321 TTCTACCGCG AACAAGACGC CGAAGCACGA GACCGCGAGAT TTTCTT 1331 TCCACTGTTA TGTCGGCGCT CTCCCGACGAA GCCCTAGATG AACTGCGGA GCCCT 1441 CCCCCGAGTT GCATCTCTC TCCTCTACTC TCCTTCATCT TCCTTCTCTC CCCCCGCAGT 1501 TTGACATCCT CCTTCTCTC TCCTTCTCTT TCCTTCTCTC CCCCCGCAGT 1621 CTTTTGTTTT TCTTCGCGGC CTCCTCTCT TCCTTCTCTC CCCCCCCAC ACCGCCTC 1621 CTTTTGTTTT TCTTCGCGGC CTCCTCCTC TCCTCTCTC CCCCCCCC	421	GGCCATGGAG	TTGCTCGGAC	${\tt CTTCTTTAGA}$	GGACGTCTTC	AACTTGTGCA	ATCGCACCTT
601 CAATCAAAAC ACGATCTACG TGATCGACTT CGGCCTGGCG AAGAGTTTC GCGCTC 661 AACGCACCAA CATATTCCGT ACAGAGAAAA CAAGATCTC ACGGGAACGG CGCCTT. 721 GTCCATCAGT GCGCATCTGG GTTCCGAGCA GAGTCGCCGA GATGACCTCG AAGCAG 781 CTACGTTCTC ATGTACTTCT GTCGAGGAG CACGCTGCCT TGGCAGGGCA TCAAAG 841 TACCAAACAG GAGAAGTACC ACAAGATCAT GGAGAAGAAG ATGTCGACGC CCGTCG. 901 GCTATGCAAG GGATATCCAA GCGAATTTGC CACATACTTG CACTACTGC GCTCCT 961 ATTCGAGGAC CGACCGAACT ACGCCTACTT CAAGCGACTC TTTCGAGATC TCTACAC 1021 AGAGGGCTAC GATGACAGTG ACGCCTACTT CGACTGACA GTGAAACTTT CGTCGG 1081 TCTCGGACCG CCAAGCAGTC GACCGCAACT TGTTTTACTC AGTCAAGCAC CCGGAA 141 AGGGAAGCGG CAAGCAGTC GACCGCAACT TTTCGAAGACA CCCGAA 141 AGGGAAGCGG CAAGCAGTC GACCTGTCCC TGCGCGGAGT GCGCACCCC GAGCACCC GACCGCACA 1201 CCATTTCAGC AACGGGAACG TGGGCAATCC TTCGATGGCA ACGAACCCCC GCGCCC 1321 TTCTACGCGG AAAGAAGAC CGAAGCAGC CGAAGCAGC CGAACGAGC GAGCCGCCAACA 1321 TTCTACGCGG AAAGAAGAC CGAAGCAGC CGAAGCAGC CGAAGCAGC CGCGCG 1321 TTCTACGCGG AAAGAACAC CGAAGCAGC CGAAGCAGC CACACGGAA GCCCTGAGAC 1381 TCCACTGTTA TGTCGGCGCT CTCCCACGAA GGCCTAGATG AACTCCCG GCGCC 1321 TTTGACCTCT CCTTCTCT TCCTTCATTG TCGTTGTTC CCTCCCAC 1501 TTGACATCCT CGTCTCTC TCCTTCATTG TCGTTCTTC TCCTCCTCT CCCCCC 1561 TTCGTTCTCT CCTTCTTCT TCCTTCATTG TCGTTCTCT CCCCCCC 1561 TCGTTCTCT TCCTTCTCT TCCTTCCTT CACCTCTTC CCCCCCC 1561 TCGTTCTCT TCCTCTCTC TCCTCCTT CACCTCTCT CCCCCCC 1561 TCGTCTCTT TCCTCTCCT TCCTCTCTT CCTCCTTC CCCCCC	481	CTCTCTCAAA	ACCATTCTTC	TTCTCGCCGA	${\tt CCAGTTTCTG}$	CAACGCGTCG	AGTACATCCA
661 AACGCACCAA CATATTCCGT ACAGAGAAAA CAAGATCTC ACGGAACGG CGCCTT.  721 GTCCATCAGT CCGCATCTGG GTTCCGAGCA GAGTCGCCGA GATGACCTCG AAGCAG  781 CTACGTTCTC ATGTACTTCT GTCGAGGAG CACGCTGCCT TGGCAGGGCA TCAAAG  841 TACCAAACAG GAGAAGTACC ACAAGATCAT GGAGAGAGAG ATGTCGACGC CCGTCG  901 GCTATGCAAG GGATATCCAA GCGAATTTGC CACATACTTG CACTACTGC GCTCCT  961 ATTCGAGGAC CGACCGGACT ACGCCTACCT CAAGCGACTC TTTCGAGATC TCTACAC  1021 AGAGGGCTAC GATGACAGTG ACGCCTACCT CAAGCGACTC TTTCGAGATC TCTACAC  1031 TCTCGGACCG CAAGCAGTC GAGCGCAACA TGTTTTACTG AGTCAAACCTT CGTCGGC  1141 AGGGAAGCGG GAGACAGATC GACCTGACCA TGCGCGGAGT GGCGACCGCG ACCGGA  1201 CCATTTCAGC AACGGGAACG TGGGCAACC TTCGGCGGAGT GGCGACCGCG ACCGAC  1221 TCTACAGCGG AACGAGACG TGGGCAATC TTCGATGGCA ACGAGCCCG GCGGCC  1321 TTCTACGCGG CATGAACGCA CGAGTCTGGG GGATCAGGGA GACCGTGGGT CGCGCGC  1321 TTCTACGCGG AAAGAACG CGAACGACG CAGATGGCCA ACGAGG  1321 TCTACACGGA CATGAACGCA CGAGTCTGGT GGATCAGGGA GACCGTGGGT CGCGCG  1321 TTCTACGCGG AAAGAACAC CGAAGGACG CAGATGGCCA GAGCCAGG CGCGCC  1321 TTCTACGCGG CATCTCT CTCCTCATTG TCGTTGTTC CCTCGCAGAT  1441 CCCCGCAGTT GCCATCTCT TCCTTCATTG TCGTTGTTC CCTCGCACACT  1501 TTGACATCCT CCTTCTCT TCCTTCATTG TCGTTGTTC CCTCCTCT CCCCCC  1561 TTCGTTCTT TCTTCGCGGC GTCTCTCTT CACTCTTCT CCCCCCCC  1561 TCGTTCTTT TCTTCGCGGC GTCTCCTT CACTCTTCT CCCCCCCC  1561 TCGTTCTTT TCTTCGCGGC GTCTCCTT CACTCTTCT CCCCCCCC  1561 GAGCCGTTTC CTCCTGCAGA ACGGCAAT ACCTGCCTC CCCCCCCCCC	541	CTCCAAGAAT	TTCATTCACA	GAGATATCAA	ACCAGATAAC	TTTCTTCTCG	GCGGTGCCGG
721 GTCCATCAGT GCGCATCTGG GTTCCGAGCA GAGTCGCCGA GATGACCTCG AAGCAG 781 CTACGTTCTC ATGTACTTCT GTCGAGGAGG CACGCTGCCT TGGCAGGGCA TCAAAGG 841 TACCAAACAG GAGAAGTACC ACAAGATCAT GGAGAAGAAG ATGTCGACGC CCGTCG 901 GCTATGCAAG GGATATCCAA GCGAATTTGC CACATACTTG CACTACTGCC GCTCCT 961 ATTCGAGGAC CGACCGGACT ACGCCTACCT CAAGCGACTC TTTCGAGATC TCTACAA 1021 AGAGGGCTAC GATGACAGTG ACCGCGAATT CGACTGGACA GTGAAACTTT CGTCGC 1081 TCTCGGACCG CCAAGCAGTC GAGCGCAACA TGTTTTACTG AGTCAAGACA CCCGAA 1141 AGGGAAGCGG GAGACAGATC GACCTGTCG TGGCGGAGT GGCGAACCCCG AACGAG 1201 CCATTTCAGC AACGGGAACG TGGGCAATCC TTCCATGGCA ACCGACCCG AACGAG 1211 TCTACGCG AAAGAAGACG CGAAGCACG TGGACCAGCA GACCGTGGGT CGCGCG 1321 TTCTACGCG AAAGAAGACG CGAAGCACG CAGAGCACG GAGAGCACG CAGAGCACG CACCCCCCACACA GCCCTAGAAC CCCCCACACAC CACCCCACACAC CACCCCACCA	601	CAATCAAAAC	ACGATCTACG	TGATCGACTT	CGGCCTGGCG	AAGAAGTTTC	GCGATCCGAA
781 CTACGTTCTC ATGTACTTCT GTCGAGGAGG CACGCTGCCT TGGCAGGGCA TCAAAGA 841 TACCAAACAG GAGAAGTACC ACAAGATCAT GGAGAAGAAG ATGTCGACGC CCGTCG 901 GCTATGCAAG GGATATCCAA GCGAATTTGC CACATACTTG CACTACTGCC GCTCCT 961 ATTCGAGGAC CGACCGGACT ACGCCTACCT CAAGCGACTC TTTCGAGATC TCTACAC 1021 AGAGGGCTAC GATGACAGTG ACCGCGAATT CGACTGGACA GTGAAACTTT CGTCGC 1081 TCTCGGACCG CCAAGCAGTC GACCGCAACA TGTTTTACTG AGTCAAGACA CCCGAA 1141 AGGGAAGCGG GAGACAGATC GACCTGTCC TGCGCGGAGT GGCGACCGCG AACGAG 1201 CCATTTCAGC AACGGGAACG TGGGCAACA TGTTTACTG AGTCAAGACA CCCGAA 1211 TCTACGCGG AACGAGACG TGGGCAACC TTCGATGGCA ACGAACCCCG GCGCC 1221 TCTACGCGG AAAGAAGACG CGAGTCTGGT GGATCAGGGA GACCGTGGGT CGCGCG 1321 TTCTACGCGG AAAGAAGACG CGAGTCTGGT GGATCAGGGA GACCGTGGGT CGCGCG 1321 TCCACTGTTA TGTCGGCGCT CTCCGACGAA GGCCTAGATG AACTGCGGAG GCGCTC 1441 CCCCGCAGTT GGCATCTCT TCCTTCATTG TCGTTGTTC CCCCCCC 1501 TTGACATCCT CGTCTCTCT TCCTTCATTG TCGTTGTTC CCCCCCCCCC	661	AACGCACCAA	CATATTCCGT	ACAGAGAAAA	CAAGAATCTC	ACGGGAACGG	CGCGCTACGC
841TACCAAACAGGAGAAGTACCACAAGATCATGGAGAAGAGATTTGACGCCCGTCG901GCTATGCAAGGGATATCCAAGCGAATTTGCCACATACTTGCACTACTGCCGCTCGT961ATTCGAGGACCGACCGGACTACGCCTACCTCAAGCGACTTTTCGAGATCTCTACAC1021AGAGGGCTACGATGACAGTGACCGCGAATTCGACTGGACAGTGAAACTTTCGTCGC1081TCTCGGACCGCCCAAGCAGTCGAGCCCAACATGTTTTACTGAGTCAAGACACCCGAA1141AGGGAACGGGAGACAGATCGACCTGTCGCTCGATGGCAACGAACCCCGGCGGCC1201CCATTTCAGCAACGGGAACGTGGGCAATCCTTCGATGGCAACGAACCCCGGCGCGC1211TCTACGCGGAACGAGACGCACGATCTGGTGGATCAGGGAGACCGTGGGTCGCGCG1321TTCTACGCGGAAAGAAGACGCGAAGGACGGCAGATGGCCAGGAGGCAGATTTTCTT1381TCCACTGTTATGTCGGCGCTCTCCGACGAAGGCTTAGATGAACTGCGGAGGCCCTC1441CCCCGCAGTTGGCATCTCTCTTCCTTCATTGCTCGTCTTTCCTCGTCCTTTCTCGTCCTCTCTCGTCCTCTCTCGTCCTCTCTCGTCCTCTCTCGTCCTCTCTCGTCCTCTCTCGTCCTCTCTCGTCCTCTCTCGTCTCTTCTCCTTCTTTCTCCTTCTCTTCTCCTTCTCTTCTCCTTCTCTTCTCCTTCTCTTCTCCTTCTCTTCTCCTTCTTCTCTCCTTGGCAGCCCTCTCTCTCTCCTTGGCACGCCTCTTCTTTCTCCTTGGGCACGCCTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	721	GTCCATCAGT	GCGCATCTGG	GTTCCGAGCA	GAGTCGCCGA	GATGACCTCG	AAGCAGTCGG
901 GCTATGCAGG GGATATCCAA GCGAATTTGC CACATACTTG CACTACTGCC GCTCCT 961 ATTCGAGGAC CGACCGGACT ACGCCTACCT CAAGCGACT TTTCGAGATC TCTACAA ACGGGACT ACGCCTACCT CAAGCGACT TTTCGAGATC TCTACAA ACGGGACT CGACGGACT CGACGGACT CGACGGACT CGACGGACT CGACGGACT CGACGGACT CGACGACACA TGTTTTACTG AGTCAAGACA CCCGAAA ACGGGAACG CAAGCAGTC GACCTGTCGC TGCGCGGAGT GGCGACCGCG AACGAGCACC CGACGACCCC TTCGATGGCA ACGAACCCCG GCGGCC AACGAGCACC CGACGACCCC TTCGATGGCA ACGAACCCCG GCGGCC AACGAGCACC CGACGACCCC CACGACGACCCC CGACGACCCC CACGACGACACCCC CGACGACCCC CACGACGACACCCC CACGACGACACCCC CCCCCCCC	781	CTACGTTCTC	ATGTACTTCT	GTCGAGGAGG	${\tt CACGCTGCCT}$	${\tt TGGCAGGGCA}$	TCAAAGCGAA
961 ATTCGAGGAC CGACCGGACT ACGCCTACCT CAAGCGACTC TTTCGAGATC TCTACAA 1021 AGAGGGCTAC GATGACAGTG ACCGCGAATT CGACTGGACA GTGAAACTTT CGTCGC 1081 TCTCGGACCG CCAAGCAGTC GAGCGCAACA TGTTTTACTG AGTCAAGACA CCCGAA 1141 AGGGAAGCGG GAGACAGATC GACCTGTCGC TGCGCGGAGT GGCGACCGCG AACGAG 1201 CCATTTCAGC AACGGGAACG TGGGCAATCC TTCGATGGCA ACGAACCCCG GCGGCC 1261 AGTCATGGTG CATGAACGCA CGAGTCTGGT GGATCAGGGA GACCGTGGGT CGCGCG 1321 TCTACCCGG AAAGAAGACG CGAAGGACGG CAGATGGCCA GGAGGCAGAT TTTCTT 1381 TCCACTGTTA TGTCGGCGCT CTCCGACGAA GGCCTAGATG AACTGCGGAG GCGTC 1441 CCCCGCAGTT GGCATCTCT CTCTTCATTG TCGTTGTTC CTCGTCAACTC GAGTCC 1501 TTGACATCCT CGTCTCTCT TTCCTTCTGG TTTCCTCTTT CTCGTCCTCT CTCGCCCC 1621 CTTTTGTTT TCTTCGCGG GTCTCTCT CACTCTCTC CCGCCCTCAC 1631 GAGCCGTTC CTGCAGGCAG CTCAGGCAAT ACCTGCCTCA AGGTCCTC 1641 CGTCTCTCT TCCTCGCGC GTCTCCTCT CACTCTCTC CCGCCCTCAC CCCCCCCCCC	841	TACCAAACAG	GAGAAGTACC	ACAAGATCAT	GGAGAAGAAG	ATGTCGACGC	CCGTCGAGGT
1021AGAGGGCTACGATGACAGTGACCGCGAATTCGACTGGACAGTGAAACTTTCGTCGC1081TCTCGGACCGCCAAGCAGTCGAGCGCAACATGTTTTACTGAGTCAAGACACCCGAA1141AGGGAAGCGGGAGACAGATCGACCTGTCGCTGCGCGGAGTGGCGACCGCGAACGAG1201CCATTTCAGCAACGGGAACGTGGGCAATCCTTCGATGGCAACGAACCCCGGCGCGC1261AGTCATGGTGCATGAACGCACGAGTCTGGTGGATCAGGGAGACGGTGGGTCGCGCG1321TTCTACCCGGAAAGAAGACGCGAAGACGCACGAGTGGCCAGGAGGCAGATTTTCTT1381TCCACTGTTATGTCGGCGCTCTCCGACGAAGGCCTAGATGAACTGCGGAGGCGCTC1441CCCCGCAGTTGGCATCTCTCTCCTTCATTGTCGTTGTTCCTCGTCCTCTCCCCCC1561TTCGTTCTCTCCTTTCTATCCTGCTTCGGCGTCGCCTCACTTCCTCTCTACTTCT1621CTTTTGTTTTTCTTCGCGGCGTCTCCCTTCACTCTGCTCCCGCCTCTGACGCCGCT1681GAGCCGTTCCTGCAGGCAGCTCAGGCAATACCTGCCTGCAGGTGCCTCTCTCCTTGTCT1741CGTCTCTCTTTCCTCGTCGAAACGGTCCTCACAGCTTCCTCTCCCTGGGGACCCCGCTTC1801CGTAAGTTCTTTTTTTTTGCCTCTGCGGCCTTCTCCGAGCGAGAGTTCCGGTTTGGG1921TGCATCGTCTCCTGCGCTCGTTTTCATTCTCTAGGGATTCTCCGTGGCTCCGTGG1981GAAATCGGAAGGTGAAGGCGTAGTGGCCAGAGAACGAAGCAAACGAGAGAACCACG2041ACCTTGTCCCACGCATGCA <td>901</td> <td>GCTATGCAAG</td> <td>GGATATCCAA</td> <td>GCGAATTTGC</td> <td>CACATACTTG</td> <td>CACTACTGCC</td> <td>GCTCCTTGCG</td>	901	GCTATGCAAG	GGATATCCAA	GCGAATTTGC	CACATACTTG	CACTACTGCC	GCTCCTTGCG
1081 TCTCGGACCG CCAAGCAGTC GAGCGCAACA TGTTTTACTG AGTCAAGACA CCCGAA 1141 AGGGAAGCGG GAGACAGATC GACCTGTCGC TGCGCGGAGT GGCGACCGCG AACGAG 1201 CCATTTCAGC AACGGGAACG TGGGCAATCC TTCGATGGCA ACGAACCCCG GCGCC 1261 AGTCATGGTG CATGAACGCA CGAGTCTGGT GGATCAGGGA GACCGTGGGT CGCGCG 1321 TTCTACGCGG AAAGAAGACG CGAAGGACGG CAGATGGCCA GGAGGCAGAT TTTCTT 1381 TCCACTGTTA TGTCGGCGCT CTCCGACGAA GGCCTAGATG AACTGCGGAG GCGCTC 1501 TTGACATCCT CGTCTCTCT TCCTTCATTG TCGTTCTCT CCCCCCC 1561 TTCGTTCTCT CCTTCTATC CTGCTTCTCT TCCTTCTTT CTCGTCCTC ACTTCT 1621 CTTTTGTTTT TCTTCGCGGC GTCTCTCTT CACTCTTCT CCGCCTCC ACTTCT 1741 CGTCTCTCT CTGCAGGCAG CTCAGGCAAT ACCTGCTCC ACGCCCC 1861 GAGCCGTTTC CTGCAGGCAG CTCAGGCAAT ACCTGCTCC ACGCCCC 1861 GCACTCCTT TCCTCGTCGA AACGGCCAT ACCTCCTC CCCCCCC 1861 GCACTCCTT TCCTCGTCGA AACGGTCCT ACAGCTTCCT CTCCCTCGG ACGCCGC 1861 GCACTCCGAG CATTTTTGCC GTCCCGGCGC GTCGCCTTCC TCCCCTCGG ACGCCGC 1881 GCAAATCGCA CATTTTTGCC GTCCCGGGCAC TTCTCCTC TCCCCCGCGC 1881 GCACTCCGAG CATTTTTGCC TGGCCTGGAC TTCTCCTC TCCCCTGGG ACGCCGC 1881 GCACTCCGAG CATTTTTGCC TGGCCTGGAC TTCTCCTC TCCCTCGGG ACGCCGC 1881 GCACTCCGAG CATTTTTGCC TGGCCTGGAC TTCTCCTC TCCCTTGGG ACGCCGC 1881 GCAAATCGCAG CATTTTTGCC TGGCCTGGAC TTCTCCGAGC GAGAGTTGCG GTTTCG 1881 GCAAATCGCAG CATTTTTGCC TGGCCTGGAC TTCTCCGAGC AAACGAGGA ACCACG 1881 GCAAATCGGAA GGTGAAGGCG TAGGGCCAGAC AAACGAAGAA ACCACGA 1881 GCAAATCGGAA GGTGAAGGCG TCCGGCAC TCCTGGAC TTCTCCGAGC AAACGAAGAA ACCACGA 1881 GAAATCGGAA GCTTATATATATA TGTATCTACA TGTATCTAC TATATATATG TGTGTGG 1921 TATATATAGAT TATATATATA TGTATCTACA TGTATCTACC TATATATATG TGTGTGG 2221 GGGCAGGAG CGACGATCCT GCGAGTCAG GCGTTCCTT CCCTGGCAT GCTGGAC 2221 GGGCAGGAG CGACGATCCT GCGAGTCAGC GCCTTCCTT GTTTCCAGTG ACTTAAACCGAACC AAACGAAGC AACCACGACC ACCGCATCT TTTTTTTCAA TGTGCAGC TTTTCTTTTT CCCCTGGCAC TTTTCCAGTG ACTTTATATATATA TGTATCTACA TGTATCTACC TATATATATA TGTGTGGAC 2221 GGGCAGGAG CGACGATCCT GCGAGTCAGC GCGTTCCCTT GTTTCCAGTG ACTTAAACCGTT ACCTTTTTT CCCCTGGCAC TTTTCCAGTG ACCTTTCTTTT CCCCTGGCAC TTTTCCAGTG ACCTTTCAGCACAC CCCGTTAAACCAC CCCGTTAAACCAC CCCGTTAAACCAC CCCGTTAAACCAC CCCGTTAAACCAC CC	961	ATTCGAGGĄC	CGACCGGACT	ACGCCTACCT	CAAGCGACTC	TTTCGAGATC	TCTACATCAA
1141 AGGGAAGCGG GAGACAGATC GACCTGTCGC TGCGCGAGT GGCGACCGCG AACGAG 1201 CCATTTCAGC AACGGGAACG TGGGCAATCC TTCGATGGCA ACGAACCCCG GCGGCC 1261 AGTCATGGTG CATGAACGCA CGAGTCTGGT GGATCAGGGA GACCGTGGGT CGCGCG 1321 TTCTACGCGG AAAGAAGACG CGAAGGACGG CAGATGGCCA GGAGGCAGAT TTTCTT 1381 TCCACTGTTA TGTCGGCGCT CTCCGACGAA GGCCTAGATG AACTGCGGAG GCGCTC 1441 CCCCGCAGTT GGCATCTCT TCCTTCATTG TCGTTGTTC CCTGCAACTC GAGTCC 1501 TTGACATCCT CGTCTCTCT TTCCTTCGCG GTCGCCTCAC TTCTCTCTC CCCCCC 1561 TTCGTTCTCT CCTTTCTATC CTGCTCTCT CACCTCTC CCCCCC 1681 GAGCCGTTTC CTGCAGGCAG CTCAGGCAAT ACCTGCCTC AGGTGCCTC CTTTTT 1741 CGTCTCTCT TCCTCGCGC GTCCCCCC ACGCCTCCA AGGTGCCTC CCTTTT 1801 CGTAAGTTCT TTTTTTGACG GTCCCGGTGG GCTGGCGTTG TCCCCTGGGG ACGCCGC 1801 CGTAAGTTCT TTTTTTGACG GTCCCGGTGG GCTGGCCTTC TCCCTCGGC GTTTCGCC TTCCGCC TTCCGCC TTCCGCC CTCGAGCAG CATTTTTGCC TGGCCTGGAC TTCCCGAGC GAGAGTTCCC TCCGTGGGC TTCCGCC TCCGCCCC TCCGCCCC TCCGCCCC TCCGCCC TCCGCC TCCGCC TCCGCC TCCGCCC T	1021	AGAGGGCTAC	GATGACAGTG	ACCGCGAATT	CGACTGGACA	${\tt GTGAAACTTT}$	CGTCGCGCAG
1201 CCATTTCAGC AACGGAACG TGGGCAATCC TTCGATGGCA ACGAACCCCG GCGGCCCCCCCCCC	1081	TCTCGGACCG	CCAAGCAGTC	GAGCGCAACA	${\tt TGTTTTACTG}$	AGTCAAGACA	CCCGAACGCG
1261 AGTCATGGTG CATGAACGCA CGAGTCTGGT GGATCAGGGA GACCGTGGGT CGCGCG 1321 TTCTACGCGG AAAGAAGACG CGAAGGACGG CAGATGGCCA GGAGGCAGAT TTTCTT 1381 TCCACTGTTA TGTCGGCGCT CTCCGACGAA GGCCTAGATG AACTGCGGAG GCGCTC 1441 CCCCGCAGTT GGCATCTCT TCCTTCATTG TCGTTGTTC CCCTGCAACTC GAGTCC 1501 TTGACATCCT CGTCTCTCT TCCTTCGGC GTCGCCTCAC TTCTCTCTC CCCCCC 1561 TTCGTTCTCT CCTTTCATC CTGCTCTCT CACTCTGTC CCCCCCC 1561 TTCGTTCTCT CCTTCTATC CTGCTCTCT CACTCTGTC CCGCCTCAC CTCCTCTCAACTC 1681 GAGCCGTTTC CTGCAGGCAG CTCAGGCAAT ACCTGCCTC AGGTGCCTC CCTTTT 1741 CGTCTCTCT TCCTCGGC GTCCCCTC ACGCCTCC AGGTGCCTC CCTTTT 1801 CGTAAGTTCT TTTTTTGACG GTCCCGGGAG GCTGGCGTTG TTCGCCTGC TTCCGCC 1861 GCACTCCGAG CATTTTTGCC TGGCCTGGAC TTCTCCGAGC GAGAGTTGCG GTTTGG 1921 TGCATCGTCT CCTGCGCTGC TTTCATTTCT CTAGGTTTCT GCTTGCGGC TCCGTGG 1981 GAAATCGGAA GGTGAAGGCG TAGTGGCCAG AGAACGAAGC AAACGAGAGA ACCACG 2041 ACCTTGTGCG CACGCATGCA TCTACGCATG CACGGTATTT TTTTTGC 2101 TATATAGATG TATATATATA TGTATCTACA TGTATCTACC TATATATATG TGTGTGG 2221 GGGCAGGAG CGACGATCCT GCGAGTCAG GCGTTCCCTT CCTAGGCAA 2281 ATTGTTTATT GATATGCGTT TGCATGCATC GACAATGGAT CCTAGACACG CCCGTTAA	1141	AGGGAAGCGG	GAGACAGATC	GACCTGTCGC	TGCGCGGAGT	GGCGACCGCG	AACGAGGAAT
1321 TTCTACGCGG AAAGAAGACG CGAAGGACGG CAGATGGCCA GGAGGCAGAT TTTCTT 1381 TCCACTGTTA TGTCGGCGCT CTCCGACGAA GGCCTAGATG AACTGCGGAG GCGCTC 1441 CCCCGCAGTT GGCATCTCT TCCTTCATTG TCGTTGTTCC CCTGCAACTC GAGTCC 1501 TTGACATCCT CGTCTCTCT TTCCTGTCGG TTTCCTCTTT CTCGTCCTCT CCCCCC 1561 TTCGTTCTCT CCTTCTATC CTGCTTCGC GTCGCCTCAC TTCTCTCCTC ACTTCT 1621 CTTTTGTTTT TCTTCGCGGC GTCTCCTCT CACTCTGCT CCGCCTCTCA CGCCCC 15681 GAGCCGTTC CTGCAGGCAG CTCAGGCAAT ACCTGCTGC AGGTGCCTC CCTTTT 1741 CGTCTCTCT TCCTCGTCGA AACGGTCCT ACAGCTTCCT CTCCCTGGGG ACGCCGC 1801 CGTAAGTTCT TTTTTTGACG GTCCCGGTGG GCTGGCGTTG TTCGCCTGC TTCCGCC 1861 GCACTCCGAG CATTTTTGCC TGGCCTGGAC TTCTCCGAGC GAGAGTTGCG GTTTGG 1921 TGCATCGTCT CCTGCGCTGC TTCATTTCT CTAGGTTTCT GCTTGCGGCC TCCGTG 1981 GAAATCGGAA GGTGAAGGCG TAGTGGCCAG AGAACGAAGC AAACGAGAA ACCACG 2041 ACCTTGTGCG CACGCATGCA TCTACGCATG CACGGTATTT AAGCCCGATTT TTTTTGC 2101 TATATAGATG TATATATATA TGTATCTACA TGTATCTACC TATATATATG TGTGTGG 2221 GGGCAGGAGC CGACGATCCT GCGAGTCAGG GCGTTCCCTT GTTTCCAGTG AGTTAA	1201	CCATTTCAGC	AACGGGAACG	TGGGCAATCC	TTCGATGGCA	ACGAACCCCG	GCGGCCTGTC
1381 TCCACTGTTA TGTCGGCGCT CTCCGACGAA GGCCTAGATG AACTGCGGAG GCGCTC 1441 CCCCGCAGTT GGCATCTCT TCCTTCATTG TCGTTGTTCC CCTGCAACTC GAGTCC 1501 TTGACATCCT CGTCTCTCT TTCCTGTCGG TTTCCTCTTT CTCGTCCTCT CCCCCC 1561 TTCGTTCTCT CCTTCTATC CTGCTTCGGC GTCGCCTCAC TTCTCTCTC ACTTCT 1621 CTTTTGTTTT TCTTCGCGGC GTCTCCCTT CACTCTGTCT CCGCCCTCAC 1681 GAGCCGTTTC CTGCAGGCAG CTCAGGCAAT ACCTGCCTG AGGTGCCTCT CCTTTT 1741 CGTCTCTCT TCCTCGTCGA AACGGTCCTC ACAGCTTCCT CTCCCTGGG ACGCCG 1801 CGTAAGTTCT TTTTTTGACG GTCCCGGTGG GCTGGCGTTG TTCGCCTGCC TTCCGC 1861 GCACTCCGAG CATTTTTGCC TGGCCTGGAC TTCTCCGAGC GAGAGTTGCG GTTTGG 1921 TGCATCGTCT CCTGCGCTGC TTTCATTTCT CTAGGTTTCT GCTTGCGGCC TCCGTG 1981 GAAATCGGAA GGTGAAGGCG TAGTGGCCAG AGAACGAAGC AAACGAGAGA ACCACG 2041 ACCTTGTGCG CACGCATGCA TCTACGCATG CACGGTATTT AAGCCGATTT TTTTTGCA 2161 AGTGGAAGTG TATTTTTGCA TGTGCAGAAA GCTTTCTTTT CCGCTGGCAT TTTTTTT 2161 AGTGGAAGTG TATTTTTTCA TGTGCAGAAA GCTTTCTTTT CCGCTGGCAT TTTTTTTTTT	1261	AGTCATGGTG	CATGAACGCA	CGAGTCTGGT	GGATCAGGGA	GACCGTGGGT	CGCGCGAAAC
1441 CCCCGCAGTT GGCATCTCT TCCTTCATTG TCGTTGTTC CCTGCAACTC GAGTCCC 1501 TTGACATCCT CGTCTCTCT TTCCTGTCG TTTCCTCTTT CTCGTCCTCT CCCCCCC 1561 TTCGTTCTCT CCTTTCTATC CTGCTTCGCC GTCGCCTCAC TTCTCTCCTC ACTTCT 1621 CTTTTGTTTT TCTTCGCGGC GTCTCCTT CACTCTGTCT CCGCCTCTGA CGCCGC 1681 GAGCCGTTC CTGCAGGCAG CTCAGGCAAT ACCTGCTGC AGGTGCCTCT CCTTTT 1741 CGTCTCTT TCCTCGTCGA AACGGTCCTC ACAGCTTCCT CTCCCTGGGG ACGCCG 1801 CGTAAGTTCT TTTTTTGACG GTCCCGGTGG GCTGCGTTG TTCGCCTGCC TTCCGCG 1861 GCACTCCGAG CATTTTTGCC TGGCCTGGAC TTCTCCGAGC GAGAGTTGCG GTTTGG 1921 TGCATCGTCT CCTGCGCTGC TTTCATTTCT CTAGGTTTCT GCTTGCGGCC TCCGTG 1981 GAAATCGGAA GGTGAAGGCG TAGTGGCCAG AGAACGAAGC AAACGAGAGA ACCACG 2041 ACCTTGTGC CACGCATGCA TCTACGCATG CACGGTATTT AAGCCGATTT TTTGTG 2101 TATATAGATG TATATATATA TGTATCTACA TGTATCTACC TATATATATG TGTGTG 2221 GGGCAGGAG CGACGATCCT GCGAGTCAGG GCGTTCCCTT CTTTCCAGTG AGTTAA 2221 GGGCAGGAG CGACGATCCT GCGAGTCAGC GCGTTCCCTT GTTTCCAGTG AGTTAA 2231 ATTGTTTATT GATATGCGTT TGCATGCACC GACAATGGAT CCTAGACACG CCCGTT	1321	TTCTACGCGG	AAAGAAGACG	CGAAGGACGG	CAGATGGCCA	GGAGGCAGAT	TTTCTTGTCT
1501 TTGACATCCT CGTCTCTCT TTCCTGTCG TTTCCTCTTT CTCGTCCTCT CCCCCCCC	1381	TCCACTGTTA	TGTCGGCGCT	CTCCGACGAA	GGCCTAGATG	AACTGCGGAG	GCGCTCCTGT
1561 TTCGTTCTCT CCTTTCTATC CTGCTTCGGC GTCGCCTCAC TTCTCTCTC ACTTCT 1621 CTTTTGTTTT TCTTCGCGGC GTCTCCTT CACTCTGTCT CCGCCTCTGA CGCCGC 1681 GAGCCGTTTC CTGCAGGCAG CTCAGGCAAT ACCTGCTGC AGGTGCCTCT CCTTTT 1741 CGTCTCTT TCCTCGTCGA AACGGTCCTC ACAGCTTCCT CTCCCTGGGG ACGCCG 1801 CGTAAGTTCT TTTTTTGACG GTCCCGGTGG GCTGGCGTTG TTCGCCTGCC TTCCGC 1861 GCACTCCGAG CATTTTTGCC TGGCCTGGAC TTCTCCGAGC GAGAGTTGCG GTTTGG 1921 TGCATCGTCT CCTGCGCTGC TTTCATTTCT CTAGGTTTCT GCTTGCGGCC TCCGTG 1981 GAAATCGGAA GGTGAAGGCG TAGTGGCCAG AGAACGAAGC AAACGAGAGA ACCACG 2041 ACCTTGTGCG CACGCATGCA TCTACGCATG CACGGTATTT AAGCCGATTT TTTGTG 2101 TATATAGATG TATATATATA TGTATCTACA TGTATCTACC TATATATATG TGTGTG 2121 GGGCAGGAG CGACGATCCT GCGAGTCAGG GCGTTCCCTT GTTTCCAGTG AGTTAA 2221 GGGCAGGAG CGACGATCCT GCGAGTCAG GCGTTCCCTT GTTTCCAGTG AGTTAA 2221 ATTGTTTATT GATATGCGTT TGCATGCATC GACAATGGAT CCTAGACACG CCCGTT	1441	CCCCGCAGTT	GGCATCTCTC	TCCTTCATTG	TCGTTGTTCC	CCTGCAACTC	GAGTCCACCC
1621 CTTTTGTTT TCTTCGCGGC GTCTCCTT CACTCTGTC CCGCCTCTGA CGCCGCCCCCCCCCC	1501	TTGACATCCT	CGTCTCTCTC	TTCCTGTCGG	TTTCCTCTTT	CTCGTCCTCT	CCCCCTAGC
1681 GAGCCGTTC CTGCAGGCAG CTCAGGCAAT ACCTGCCTGC AGGTGCCTCT CCTTTT 1741 CGTCTCTT TCCTCGTCGA AACGGTCCTC ACAGCTTCCT CTCCCTGGGG ACGCCG 1801 CGTAAGTTCT TTTTTTGACG GTCCCGGTGG GCTGGCGTTG TTCGCCTGCC TTCCGC 1861 GCACTCCGAG CATTTTTGCC TGGCCTGGAC TTCTCCGAGC GAGAGTTGCG GTTTGG 1921 TGCATCGTCT CCTGCGCTGC TTTCATTTCT CTAGGTTTCT GCTTGCGGCC TCCGTG 1981 GAAATCGGAA GGTGAAGGCG TAGTGGCCAG AGAACGAAGC AAACGAGAGA ACCACG 2041 ACCTTGTGCG CACGCATGCA TCTACGCATG CACGGTATTT AAGCCGATTT TTTGTG 2101 TATATAGATG TATATATATA TGTATCTACA TGTATCTACC TATATATATG TGTGTG 2161 AGTGGAAGTG TATTTTTGCA TGTGCAGAAA GCTTTCTTTT CCGCTGGCAT GCTGGA 2221 GGGCAGGAGG CGACGATCCT GCGAGTCAGG GCGTTCCCTT GTTTCCAGTG AGTTAA 2281 ATTGTTTATT GATATGCGTT TGCATGCATC GACAATGGAT CCTAGACACG CCCGTT	1561	TTCGTTCTCT	CCTTTCTATC	CTGCTTCGGC	GTCGCCTCAC	TTCTCTCCTC	ACTTCTCTCC
1741 CGTCTCTT TCCTCGTCGA AACGGTCCT ACAGCTTCCT CTCCCTGGGG ACGCCG 1801 CGTAAGTTCT TTTTTTGACG GTCCCGGTGG GCTGGCGTTG TTCGCCTGCC TTCCGC 1861 GCACTCCGAG CATTTTTGCC TGGCCTGGAC TTCTCCGAGC GAGAGTTGCG GTTTGG 1921 TGCATCGTCT CCTGCGCTGC TTTCATTTCT CTAGGTTTCT GCTTGCGGCC TCCGTG 1981 GAAATCGGAA GGTGAAGGCG TAGTGGCCAG AGAACGAAGC AAACGAGAGA ACCACG 2041 ACCTTGTGCG CACGCATGCA TCTACGCATG CACGGTATTT AAGCCGATTT TTTTGTG 2101 TATATAGATG TATATATATA TGTATCTACA TGTATCTACC TATATATATG TGTGTG 2110 AGTGGAAGTG TATTTTTGCA TGTGCAGAAA GCTTTCTTTT CCGCTGGCAT GCTGGA 2221 GGGCAGGAG CGACGATCCT GCGAGTCAG GCGTTCCCTT GTTTCCAGTG AGTTAA	1621	CTTTTGTTTT	TCTTCGCGGC	GTCTCTCCTT	CACTCTGTCT	CCGCCTCTGA	CGCCGCGCGG
1801 CGTAAGTTCT TTTTTTGACG GTCCCGGTGG GCTGGCGTTG TTCGCCTGCC TTCCCGCC  1861 GCACTCCGAG CATTTTGCC TGGCCTGGAC TTCTCCGAGC GAGAGTTGCG GTTTGG  1921 TGCATCGTCT CCTGCGCTGC TTTCATTTCT CTAGGTTTCT GCTTGCGGCC TCCGTG  1981 GAAATCGGAA GGTGAAGGCG TAGTGGCCAG AGAACGAAGC AAACGAGAGA ACCACG  2041 ACCTTGTGCG CACGCATGCA TCTACGCATG CACGGTATTT AAGCCGATTT TTTGTG  2101 TATATAGATG TATATATATA TGTATCTACA TGTATCTACC TATATATATG TGTGTG  2161 AGTGGAAGTG TATTTTTGCA TGTGCAGAAA GCTTTCTTTT CCGCTGGCAT GCTGGA  2221 GGGCAGGAG CGACGATCCT GCGAGTCAGG GCGTTCCCTT GTTTCCAGTG AGTTAA  2281 ATTGTTTATT GATATGCGTT TGCATGCATC GACAATGGAT CCTAGACACG CCCGTT	1681	GAGCCGTTTC	CTGCAGGCAG	CTCAGGCAAT	ACCTGCCTGC	AGGTGCCTCT	CCTTTTTGAG
1861 GCACTCCGAG CATTTTGCC TGGCCTGGAC TTCTCCGAGC GAGAGTTGCG GTTTGG 1921 TGCATCGTCT CCTGCGCTGC TTTCATTTCT CTAGGTTTCT GCTTGCGGCC TCCGTG 1981 GAAATCGGAA GGTGAAGGCG TAGTGGCCAG AGAACGAAGC AAACGAGAGA ACCACG 2041 ACCTTGTGCG CACGCATGCA TCTACGCATG CACGGTATTT AAGCCGATTT TTTGTG 2101 TATATAGATG TATATATATA TGTATCTACA TGTATCTACC TATATATATG TGTGTG 2161 AGTGGAAGTG TATTTTTGCA TGTGCAGAAA GCTTTCTTTT CCGCTGGCAT GCTGGA 2221 GGGCAGGAGG CGACGATCCT GCGAGTCAGG GCGTTCCCTT GTTTCCAGTG AGTTAA	1741	CGTCTCTCTT	TCCTCGTCGA	AACGGTCCTC	ACAGCTTCCT	CTCCCTGGGG	ACGCCGTGGG
1921 TGCATCGTCT CCTGCGCTGC TTTCATTTCT CTAGGTTTCT GCTTGCGGCC TCCGTG 1981 GAAATCGGAA GGTGAAGGCG TAGTGGCCAG AGAACGAAGC AAACGAAGA ACCACG 2041 ACCTTGTGCG CACGCATGCA TCTACGCATG CACGGTATTT AAGCCGATTT TTTGTG 2101 TATATAGATG TATATATATA TGTATCTACA TGTATCTACC TATATATATG TGTGTG 2161 AGTGGAAGTG TATTTTTGCA TGTGCAGAAA GCTTTCTTTT CCGCTGGCAT GCTGGA 2221 GGGCAGGAGG CGACGATCCT GCGAGTCAGG GCGTTCCCTT GTTTCCAGTG AGTTAA 2281 ATTGTTTATT GATATGCGTT TGCATGCATC GACAATGGAT CCTAGACACG CCCGTT	1801	CGTAAGTTCT	TTTTTTGACG	GTCCCGGTGG	GCTGGCGTTG	TTCGCCTGCC	TTCCGCGCAT
1981 GAAATCGGAA GGTGAAGGCG TAGTGGCCAG AGAACGAAGC AAACGAAGA ACCACG 2041 ACCTTGTGCG CACGCATGCA TCTACGCATG CACGGTATTT AAGCCGATTT TTTGTG 2101 TATATAGATG TATATATATA TGTATCTACA TGTATCTACC TATATATATG TGTGTG 2161 AGTGGAAGTG TATTTTTGCA TGTGCAGAAA GCTTTCTTTT CCGCTGGCAT GCTGGA 2221 GGGCAGGAGG CGACGATCCT GCGAGTCAGG GCGTTCCCTT GTTTCCAGTG AGTTAA	1861	GCACTCCGAG	CATTTTTGCC	TGGCCTGGAC	TTCTCCGAGC	GAGAGTTGCG	GTTTGGCTTC
2041 ACCTTGTGCG CACGCATGCA TCTACGCATG CACGGTATTT AAGCCGATTT TTTGTGCACTACT TATATATATA TGTATCTACA TGTATCTACC TATATATATG TGTGTGCACTACT AGGCGAAGTG TATTTTTGCA TGTGCAGAAA GCTTTCTTTT CCGCTGGCAT GCTGGAACTC GCGAGTCCT GCGAGTCAGG GCGTTCCCTT GTTTCCAGTG AGTTAACTCACTACTACTACTACTACTACTACTACTACTACT	1921	TGCATCGTCT	CCTGCGCTGC	TTTCATTTCT	CTAGGTTTCT	GCTTGCGGCC	TCCGTGTACA
2101 TATATAGATG TATATATATA TGTATCTACA TGTATCTACC TATATATATG TGTGTG 2161 AGTGGAAGTG TATTTTTGCA TGTGCAGAAA GCTTTCTTTT CCGCTGGCAT GCTGGA 2221 GGGCAGGAGG CGACGATCCT GCGAGTCAGG GCGTTCCCTT GTTTCCAGTG AGTTAA 2281 ATTGTTTATT GATATGCGTT TGCATGCATC GACAATGGAT CCTAGACACG CCCGTT	1981	GAAATCGGAA	GGTGAAGGCG	TAGTGGCCAG	AGAACGAAGC	AAACGAGAGA	ACCACGTTCC
2161 AGTGGAAGTG TATTTTTGCA TGTGCAGAAA GCTTTCTTTT CCGCTGGCAT GCTGGA 2221 GGGCAGGAGG CGACGATCCT GCGAGTCAGG GCGTTCCCTT GTTTCCAGTG AGTTAA 2281 ATTGTTTATT GATATGCGTT TGCATGCATC GACAATGGAT CCTAGACACG CCCGTT	2041	ACCTTGTGCG	CACGCATGCA	TCTACGCATG	CACGGTATTT	AAGCCGATTT	TTTGTGTATG
2221 GGGCAGGAGG CGACGATCCT GCGAGTCAGG GCGTTCCCTT GTTTCCAGTG AGTTAA 2281 ATTGTTTATT GATATGCGTT TGCATGCATC GACAATGGAT CCTAGACACG CCCGTT							
2281 ATTGTTTATT GATATGCGTT TGCATGCATC GACAATGGAT CCTAGACACG CCCGTT	2161	AGTGGAAGTG	TATTTTTGCA	TGTGCAGAAA	GCTTTCTTTT	CCGCTGGCAT	GCTGGAAGAA
	2221	GGGCAGGAGG	CGACGATCCT	GCGAGTCAGG	GCGTTCCCTT	GTTTCCAGTG	AGTTAACCGA
2341 ATCAGAGGTA TTCCTAAAAA AAAAAAAAA AAA (SEQ ID NO:5).	2281	ATTGTTTATT	GATATGCGTT	TGCATGCATC	GACAATGGAT	CCTAGACACG	CCCGTTTAAA
	2341	ATCAGAGGTA	TTCCTAAAAA	ААААААААА	AAA (SEQ I	D NO:5).	

		1 CKIβ-Nt * 75
TgCKIB (SEQ ID NO:6)	(1)	MAHHQDTRNHTGVGPSSSIPLKDLKIAGVWKIGRKIGSGSFGDIYKGLNSQTGQEVALKVESTKAKHPQLLYEYK
TgCKIG (SEQ ID NO:4)	(1)	MEYRYGGKYRLGRKIGSGSFGDIYIGANILTGDEVAIKLESIKSKHPQLLYESK
EtCKIG (SEQ ID NO:2)	(1)	mdvrvggkyrlgrkigsgsfgdiylgtnistgdevaiklesvrsrhpqliyesk
PfCK1α (SEQ ID NO:21)	(1)	meirvankyalgkklosgsfgdiyvakdivtmeefavklestrskhpollyesk
LmCKI-2 (SEQ ID NO:22)	(1)	MIVELRYGNRYRIGOKIGSGSFGEIFFGTNIQTGDFVAIKLEQVKTRHPQLTYESR
TCCKI-2 (SEQ ID NO:23)	(1)	msleirvgnrfrigqkigagsfgeifrgtniqtgetvaikleqaktrhpqlalear
		** * ****** * * ** ** ** ** **
		76 150
TgCKIβ (SEQ ID NO:6)		LLKHLQGGTGIAQVFCCETAGDHNIMAMELLGPSLEDVFNLCNRTFSLKTILLLADQFLQRVEYIHSKNFIH
TgCKIa (SEQ ID NO:4)		LYKLLAGGIGIPMVHWYGIEGDYNVMVIDLLGPSLEDLFSICNRKLSLKTVLMLADQMLNRIEFVHSKNFIH
EtCKIA (SEQ ID NO:2)		LYKILTGGIGIPTLYWYGIEGDYNVMIIELLGPSLEDLPSICNRKLSLKTVLMLADQMLNRIEFVHSRHFIH
PfCK1α (SEQ ID NO:21)		LYKILGGGIGVPKVYWYGIEGDFTIMVLDLLGPSLEDLPTLCNRKFSLKTVLMTADQMLNRIEYVHSKNFIH
LmCKI-2 (SEQ ID NO:22)	(57)	FYRILGSGGGAVGIPMMFYHGVEGEPNVMVIELLGPSLEDLFSFCGRRLSLKTTLMLADQMISRIEFVHSKSVLH
TcCKI-2 (SEQ ID NO:23)	(57)	FYRILNAGGGVVGIFNILPYGVEGEFNVMVMDLLGPSLEDLFSFCDRKLSLKTTLMLAEQMIARIEFVHSKSVIH
		151 CKTG_TH 225
		CKIα-It  RDIKPDNFLLGGAGNQNTIYVIDFGLAKKFRDPKTHQHIPYRENKNLTGTARYASISAHLGSEQSRRDDLBAVGY
TgCKIβ (SEQ ID NO:6)		RDIKPDNFLIGRGKKMSVVYIIDFGLAKKYRDPKTQQHIPYREGKNLTGTARYASINTHLGIEQSRRDDLEALGY
TgCKIC (SEQ ID NO:4) EtCKIC (SEQ ID NO:2)	(127)	RDIKPDNFLIGRGKKMSIVFAIDFGLAKKYRDPRTQSHIPYREGKNLTGTARYASVNTHLGIEQSRRDDLEALGY
· -		RDIKPDNFLIGRGKKYTLIHIIDFGLAKKYRDSRSHTHIPYKEGKNLTGTARYASINTHLGIEQSRRDDIBALGY
PfCK1α (SEQ ID NO:21)	,	RDIKPDNFLMGTGKKGHHVYIIDFGLAKKYRDPRTHAHIPYKEGKSLTGTARYCSINTHMGVEQGRRDDMEGIGY
LmCKI-2 (SEQ ID NO:22)		RDMKPDNPLMGTGKKGHHVYVVDFGLAKKYRDPRTHQHIPYKEGKSLTGTARYCSINTHLGIEQSRRDDLEGIGY
TCCKI-2 (SEQ ID NO:23)	(134)	******** * ***
		226 300
TgCKIB (SEQ ID NO:6)	(223)	VLMYFCRGGTLPWQGIKANTKQEKYHKIMEKKMSTPVEVLCKGYPSEFATYLHYCRSLRFEDRPDYAYLKRLFRD
TgCKIa (SEQ ID NO:4)	(202)	VLMYFNRG-SLFWQGLKATTKKDKYDKIMEKKMSTPIEILCKHFPFEFITYLNYCRSLRFEDRPDYAYLRRLFKD
EtCKIG (SEQ ID NO:2)	(202)	VLMYFNRG-SLPWQGLKATTKKDKYDKIMEKKMSTPIEVLCKQFPFEPITYLNYCRSLRFEDRPDYSYLRRLFKD
PfCK1α (SEQ ID NO:21)	(202)	VLMYFLRG-SLPWQGLKAISKKDKYDKIMEKKISTSVEVLCRNASFEFVTYLNYCRSLRFEDRPDYTYLRRLLKD
LmCKI-2 (SEQ ID NO:22)	(207)	ILMYFLRG-SLPWQGLKAHTKQEKYNRISERKQTTPVELLCKGFPSEFAAYMNYVRALRFEDKPDYSYLKRMFRD
TCCKI-2 (SEQ ID NO:23)	(207)	ILMYFLRG-SLPWQGLKAHTKQEKYSRISERKQTTPVETLCKGPPAEFAAYLNYIRSLRFEDKPDYSYLKRLFRE
		**** ** ******* ** ** * * * * * * * *
•		= CKIQ-CE
TgCKIB (SEQ ID NO: 6)		LYIKEGYDDSDREFDWTVKLSSRSLGPPSSRAQHVLLSQDTRTRGKRETDRFVAARSGDRERGIHFSNGNVGNPS
TgCKIa (SEQ ID NO:4)	(276)	LFFREGYQY-DFIFDWIFINTEKDRASRRSQQVYVEDNRQVEENQNELPM
EtCKIa (SEQ ID NO:2)	(276)	LPFREGYQY-DFIFDWIFLHAERERERQRRSMVNQGAESGNQWRRDASGRDPLGRLPQLEP
PfCK1a (SEQ ID NO:21)	(276)	LFIREGPTY-DFLFDWICVYASEKDKKKMLENKNRFDQTADQPGRDQRNN
LmCKI-2 (SEQ ID NO:22)		LFVREGYHV-DYVFDWT_LKRIHESLQBQQSPPGGSNGGGAAGNGSPVNQSPAQGGNGGAPNSANNQESGAPEQQ
TCCKI-2 (SEQ ID NO:23)	(281)	LFIREGYHV-DYVFDWTLKRIHENLKAEGSGQQEQKQQQQQQRERGDVEQA
•		376 CKIβ-Ct 435
TgCKIB (SEQ ID NO:6)	(373)	MATNPGGLSVMVHERTSLVDQGDRGSRETSTRKEDAKDGRWPGGRFSCLPLLCRRSPTKA

<sup>\*</sup>Brackets mark the catalytic core region

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	TgCKIβ	TgCKIα	EtCKΙα	PfCK1α	LmCKI-2	TcCKI-2
ТgСКІβ	100	48	48	45	44	42
TgCKIα		100	81	68	58	62
EtCKΙα		,	100	67	59	60
PfCK1α		-		100	52	55 75
LmCKI-2			ļ		100	75 100
TcCKI-2			<u></u>	<u> </u>		100

A  $Tg-\alpha$   $Tg-\beta$ Et- $\alpha$ 

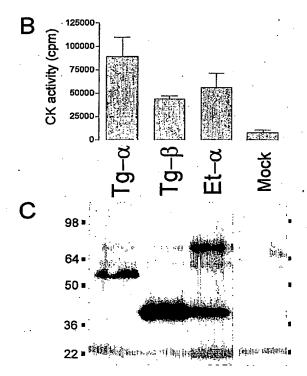
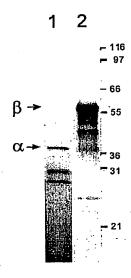


FIG. 6A-C

	Location	CK Activity
TgCKIX .RAG	С	+++
TgCKB RAG	M	++
·		
TgCKβ-CAT	Μ	+++
3'∆332 -CAT	C	-
3'Δ182-CAT	C	. <del>-</del>
3'Δ64-CAT	C	+++

A.



В.

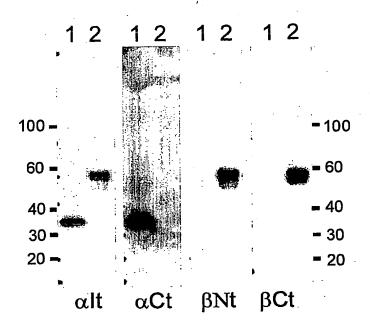


FIG. 8A-B

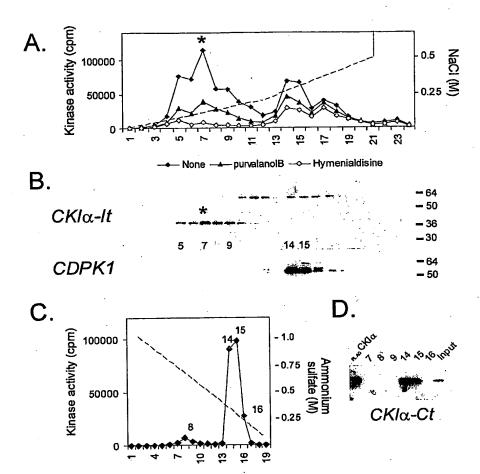


FIG. 9A-D

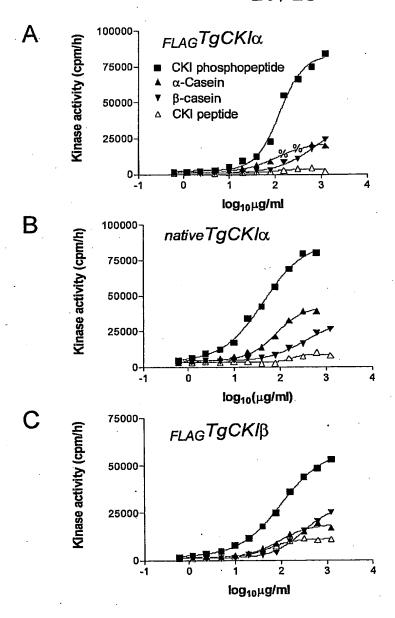
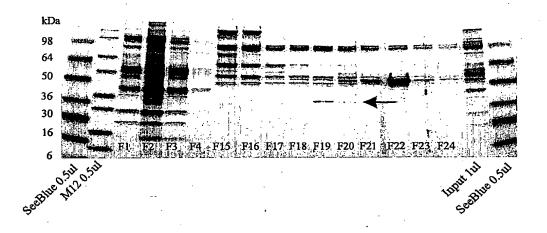


FIG. 10A-C

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Α.



В.

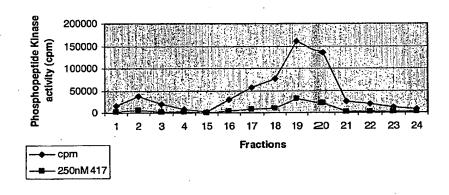


FIG. 11A-B

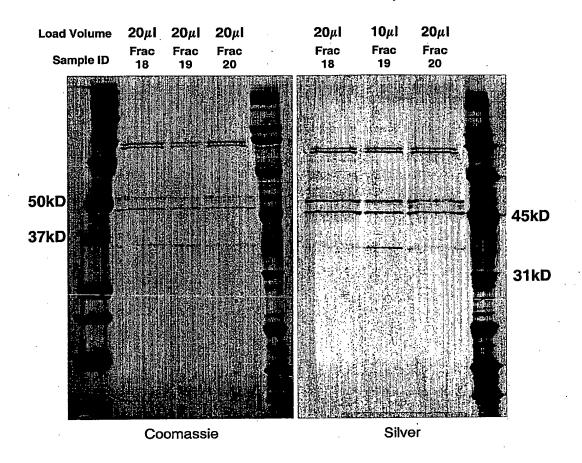


FIG. 12

	LGRKIGSGSF		
	<b>YESK</b> LYKILT		
IIELLGPSLE	DLFSICNRKL	SLK <b>TVLMLAD</b>	<b>QMLINR</b> IEFVH
SRHFIHRDIK	<b>PDNFLIGR</b> GK	KMSIVFAIDF	GLAKKYRDPR
TOSHIPYREG	KNLTGTARYA	SVNTHLGIEQ	<b>SR</b> RDDLEALG
	LPWQGLKATT		KKMSTPIEVL
CKQFPFEFIT	YLNYCRSLR	EDRPDYSYLR	RLFK <b>DLFFR</b> E
GYQYDFIFDW	TFLHAERERE	RQRRSMVNQG	AESGNOWRRD
ASGRDPLGRL	PQLEP (SEQ	ID NO:2)	

FIG. 14

Fig. 15